





<u>IN THE UNITED STATES PATENT AND TRADEMARK OFFICE</u>

pplication No.

10/511451

Confirmation No. N/A

Applicant

Toru Takenaka et al.

Filed

October 14, 2004

TC/A.U. Examiner N/A

Examinei

N/A

Title

SYSTEM FOR ESTIMATING ATTITUDE OF LEG TYPE

MOVING ROBOT ITSELF

Docket No.

SAT-15711

Customer No.

040854

LETTER

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir/Madam:

Enclosed herewith is an English translation of the International Preliminary Examination Report for filing in the above-identified application.

Respectfully submitted,

RANKIN, HILL, PORTER & CLARK LLP

Bv

David E. Spaw, Reg. No. 34732

4080 Erie Street Willoughby, Ohio 44094-7836 (216) 566-9700

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date indicated below.

Signature of Person Mailing Paper

1/13/05

David E. Spaw

Date

Printed Name of Person Mailing Paper



Translation





PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference PCT03139	FOR FURTHER ACTION SeeNotificationofTransmittalofInternational Preliminary Examination Report (Form PCT/IPEA/416)						
International application No.	International filing date (day)	/month/year)	Priority date (day/month/year)				
РСТ/ЈР03/05447	28 April 2003 (28.	.04.03)	26 April 2002 (26.04.02)				
International Patent Classification (IPC) or r B25J 5/00, 13/00	national classification and IPC						
Applicant HONI	OA GIKEN KOGYO KA	BUSHIKI K	AISHA				
and is transmitted to the applicant a	according to Article 30.		national Preliminary Examining Authority				
2. This REPORT consists of a total o							
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).							
These annexes consist of a total of sheets.							
3. This report contains indications relating to the following items:							
Basis of the report							
II Priority	II Priority						
III Non-establishmer	nt of opinion with regard to nov	elty, inventive	step and industrial applicability				
IV Lack of unity of i							
V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
VI Certain documen	ts cited						
VII Certain defects in	the international application						
VII Certain observations on the international application							
Date of submission of the demand		Date of completion of this report					
10 September 2003 (10.09.03)		01 October 2003 (01.10.2003)					
Name and mailing address of the IPEA/JP		Authorized officer					
Facsimile No.	Т	Telephone No.					

Form PCT/IPEA/409 (cover sheet) (July 1998)



INTERNATIONAL PRELIMINARY EXAMINATION REPORT

I. Bas	sis of the rep	port					
1. Wi	ith regard to	the elements of the international application:*					
\boxtimes	the inter	national application as originally filed					
	the desci	the description:					
	pages						
	pages	, as originally filed , filed with the demand					
	pages _	, filed with the letter of					
Г	the claim						
_	pages						
l	pages	, as originally filed					
	pages	, as amended (together with any statement under Article 19 , filed with the demand					
	pages _	, filed with the demand , filed with the letter of					
	the drawi						
ļ	pages						
	pages	, as originally filed					
	pages	, filed with the demand					
		, filed with the letter of					
		ce listing part of the description:					
	pages _	, as originally filed					
	pages	, filed with the demand					
	pages	, filed with the letter of					
the The	se elements the langu- the langu-	the language, all the elements marked above were available or furnished to this Authority in the language in which application was filed, unless otherwise indicated under this item. were available or furnished to this Authority in the following language which is: age of a translation furnished for the purposes of international search (under Rule 23.1(b)). age of publication of the international application (under Rule 48.3(b)). age of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/					
3. With	h regard to iminary exar	any nucleotide and/or amino acid sequence disclosed in the international application, the international mination was carried out on the basis of the sequence listing:					
	contained	in the international application in written form.					
닐	filed together with the international application in computer readable form.						
	furnished subsequently to this Authority in written form.						
닏		subsequently to this Authority in computer readable form.					
		ment that the subsequently furnished written sequence listing does not go beyond the disclosure in the nal application as filed has been furnished.					
	The stater been furni	ment that the information recorded in computer readable form is identical to the written sequence listing has ished.					
	The amend	dments have resulted in the cancellation of:					
		description, pages					
		claims, Nos					
		drawings, sheets/fig					
	This report beyond the	has been established as if (some of) the amendments had not been made, since they have been considered to go disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**					
Repla in thi and 7	cement shee 's report as 0.17).	ets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16					
		sheet containing such amendments must be referred to under item 1 and annexed to this report.					

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
1. Statement					
Novelty (N)	Claims	1-6	YES		
	Claims		NO		
Inventive step (IS)	Claims	1-6	YES		
	Claims		NO		
Industrial applicability (IA)	Claims	1-6	YES		
	Claims		МО		

2. Citations and explanations

Claims 1, 4 and 5

None of the documents cited in the ISR describes the self-attitude estimating device for a leg type moving robot, in which the actual attitude of a predetermined region is estimated based on at least (1) the acceleration value detected by an acceleration sensor, (2) an estimated motion acceleration, and (3) a detected or estimated actual attitude acceleration. This constitution is not considered to be obvious to a person skilled in the art either.

Claims 2, 3 and 6

None of the documents cited in the ISR describes the self-attitude estimating device for a leg type moving robot, in which an estimated attitude angle value is obtained while being corrected, based on at least (1) the acceleration value detected by an acceleration sensor and (2) an estimated motion acceleration. This constitution is not considered to be obvious to a person skilled in the art either.

Form PCT/ IPEA/409 (Box V) (July 1998)